

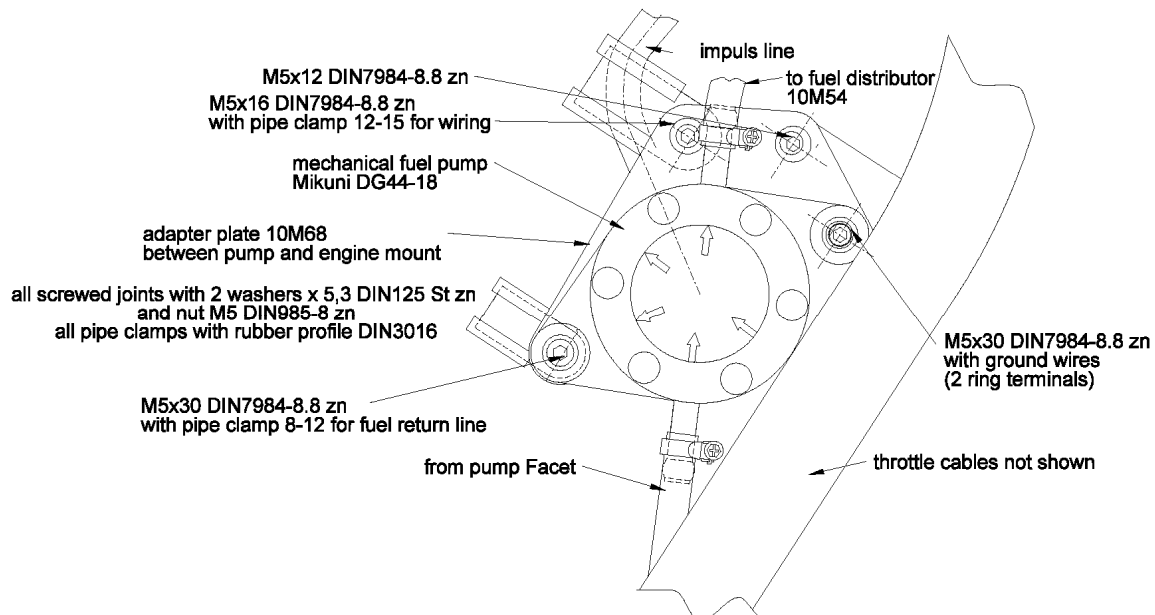
## Working instruction No.1 for TN1000/28 Mechanical fuel pump

### Replacing the mechanical fuel pump type Bing 8080 by a pump Mikuni DF44-18

See also diagrams 15 or 15a of the maintenance manual.

1. Extend the engine.
2. Remove fuel hoses from mechanical fuel pump (at the engine mount).
3. Remove Bing fuel pump.
4. To exchange the impulse line the cooling air guide and the carburetors must be removed. To avoid this work it is easier to elongate vacuum impulse line. First shorten the existing line by 30 mm (1.2 in.), then elongate with position 8 and 9 and 1 hose clamp position 10.
5. Install the Mikuni fuel pump with Adapter plate 10M68 between pump and the plate welded to the engine mount.  
Use bolts washers and nuts position 3 up to 7 according to sketch below, one washer under bolt head and 1 washer under nut. Before applying the nuts with washers reinstall the 2 pipe clamps holding wiring and return fuel line and the 2 ground wires as before.
6. Reconnect fuel and impulse lines. For the impulse line use hose clamp position 10, other wise re-use existing hose clamps.
7. Perform an engine test run and check the fuel pump with engine running at full power. Therefore switch off the main switch for 30 seconds to shut off the electrical fuel pump. The engine must continue running and you should hear no RPM drop.

**Warning:** Never run the engine without the wings assembled.



| Pos. | No. of parts needed | DG part No. | Description  |
|------|---------------------|-------------|--|
| 1    | 1                   | 60500257    | Mechanical fuel pump Mikuni DF44-18  |
| 2    | 1                   | 41070680    | Adapter plate 10M68  |
| 3    | 2                   | 50053003    | M5x30 DIN7984-8.8 zn   |
| 4    | 1                   | 50051603    | M5x16 DIN7984-8.8 zn   |
| 5    | 1                   | 50051203    | M5x12 DIN7984-8.8 zn   |
| 6    | 8                   | 51050020    | M5 DIN985-8 zn   |
| 7    | 8                   | 52050001    | 5,3 DIN125 St zn   |
| 8    | 1                   | 60507540    | Fuel hose PU 6x1,5x9 with metal shield and yellow heat shrink tubing, 62 mm long |
| 9    |                     | 60000220    | GS6 6mm Steel straight hose fitting  |
| 10   | 2                   | 40050702    | Hose clamp S70/2 11/9  |